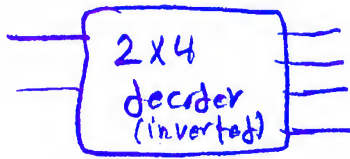
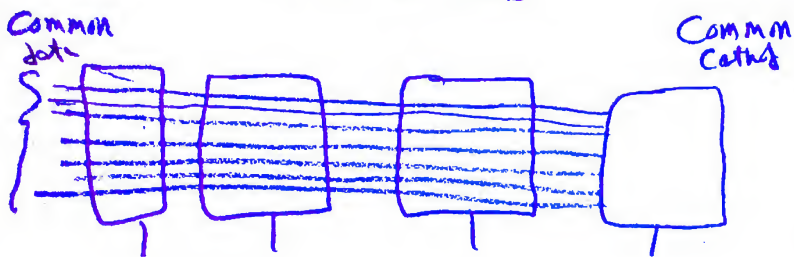


Optional Task

Counter $0 \rightarrow 9999$
with $4 \rightarrow 7$ -seg
with 2 Ports



Fast change in value and selection
Cause vision illusion
We can see numbers in all
7-seg as it selected all the time

Port C
input/output

Port D (output)

B0
B1
B2
B3

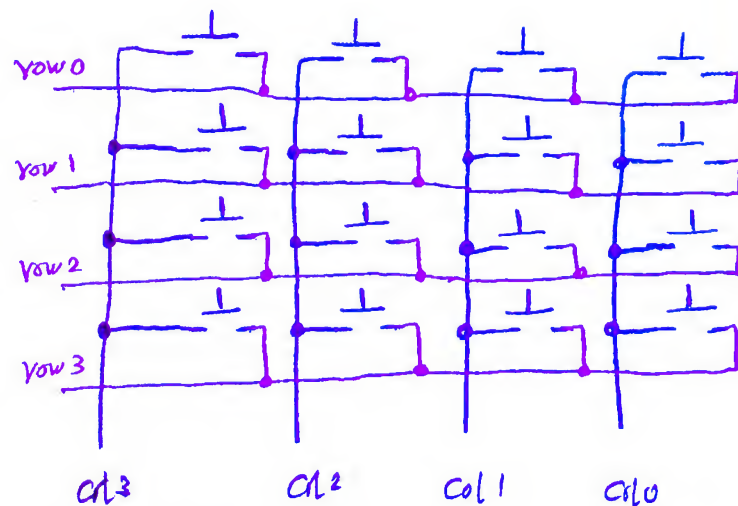
Row

B4
B5
B6
B7

Col

Key Pad

4x4 Matrix



Idea 1

row input \rightarrow loop out check
col output

Idea 2

row i/o \rightarrow read when out
col i/o \rightarrow read when out
and intersection